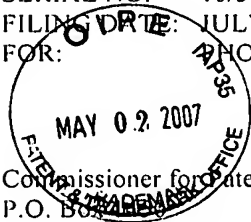


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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Roland KELLNER et al.
SERIAL NO: 10/501,077
FILING DATE: JULY 9, 2004
FOR: PHOSPHOAMIDASE ASSAY

GAU: 1657
EXAMINER: MARTIN, Paul C.



AMENDMENT TRANSMITTAL

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SIR:

Transmitted herewith is an amendment in the above-identified application.

- ☐ No additional fee is required.
- ☐ Applicant(s) is/are entitled to small entity status.
- ☒ Additional documents filed herewith: Reply

The fee has been calculated below:

CLAIMS	CLAIMS REMAINING		HIGHEST NO. PREVIOUSLY PAID FOR	NO. OF EXTRA CLAIMS	RATE		CALCULATIONS
TOTAL	18	MINUS	20	0	x	\$50 =	\$0.00
INDEPENDENT	5	MINUS	4	1	x	\$200 =	\$200.00
	<input type="checkbox"/> PETITION FOR EXTENSION OF TIME						\$0.00
	TOTAL OF ABOVE CALCULATIONS						\$200.00
	<input type="checkbox"/> REDUCTION BY 50% FOR FILING BY SMALL ENTITY						\$0.00
	<input type="checkbox"/> RECORDATION OF ASSIGNMENT				+	\$40 =	\$0.00
	TOTAL						200.00

- ☒ A check in the amount of \$200.00 is attached.
- ☒ Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to Deposit Account No. 13-3402. A duplicate copy of this sheet is enclosed.
- ☒ If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. § 1.136, and any additional fees required under 37 C.F.R. § 1.36 for any necessary extension of time may be charged to Deposit Account No. 13-3402. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Anthony J. Zelano, Reg. No. 27,969
Attorney/Agent for Applicants

05/08/2007 JBALINAN 00000089 10501077

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Services as First Class Mail in an envelope addressed to: Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on: April 30, 2007
Name: James W. Branigan
Signature: [Handwritten Signature]



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Roland KELLNER et al.

Examiner: MARTIN, Paul C.

Serial No.: 10/501,077

Group Art Unit: **1657**

Filed: JULY 9, 2004

Title: **PHOSPHOAMIDASE ASSAY**

REPLY

MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Office Action mailed on January 31, 2007, please amend the claims as follows and consider the remarks.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks/Arguments begin on page 6 of this paper.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Services as First Class Mail in an envelope addressed to: Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on: April 30, 2007

Name: Roland Kellner et al.

Signature: Roland Kellner et al.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims: Please amend the claims as follows:

We claim:

Claim 1. (Currently Amended) A method for the detection, characterization and qualitative and/or quantitative determination of the activity of a phosphoamidase enzyme, comprising hydrolyzing a phospho-ester bond (P-O) of at least one of the substrates ~~selected from the group consisting of~~ which is FDP (fluorescein diphosphate), DDAO (9H-(1,3-dichloro-9,9-dimethyl-acridin-2-one-7-yl)phosphate), DiFMUP (6,8-difluoro-4-methylumbelliferyl phosphate), ELF[®]39 phosphate (2-(2'-phosphophenyl)-4-(3H)-quinazolinone) ~~and or~~ ELF[®]97 phosphate (2-(5'-chloro-2'-phosphophenyl)-6-chloro-4-(3H)-quinazolinone) and correlating the resultant hydrolysis level with the phosphoamidase activity of said enzyme.

Claim 2. (Previously Presented) A method of claim 1 wherein the phosphoamidase is a protein phospho-amidase.

Claim 3. (Previously Presented) A method of claim 2 wherein the protein phosphoamidase is a protein histidine phosphoamidase (PHP).

Claim 4. (Previously Presented) A method of claim 3 wherein the protein histidine phosphoamidase is PHP1.

Claim 5. (Currently Amended) A method for the identification of an inhibitor or activator of a phosphoamidase comprising ~~the steps:~~

- a) establishing a sample comprising a phosphoamidase and a test substance,
- b) administering a substrate selected from the group consisting of FDP, DDAO, DiFMUP, ELF[®]39 phosphate and ELF[®]97 phosphate to the sample,
- c) detecting the signal produced by the hydrolysis of the phospho-ester bond (P-O) of the substrate, and